

### Abstract of the Disclosure

Provided are a method and apparatus for encoding and decoding digital data using a bandwidth extension technology. The method includes:

- bandwidth-extension-encoding the digital data, outputting bandwidth-limited data,
- 5 and generating bandwidth extension information; encoding the bandwidth-limited data into a hierarchical structure having a base layer and at least one enhancement layer so as to control a bit rate; and multiplexing the encoded bandwidth-limited data and the bandwidth extension information.